

Title (en)
WIND POWER STATION

Title (de)
WINDKRAFTWERK

Title (fr)
CENTRALE D'ENERGIE EOLIENNE

Publication
EP 4006332 A1 20220601 (EN)

Application
EP 20210728 A 20201130

Priority
EP 20210728 A 20201130

Abstract (en)
A wind power station (2) is disclosed, comprising a flow channel (4) extending at least approximately in a vertical direction between an inlet (6) and an outlet (8), and a wind turbine (10) for producing electrical energy having a propeller (14), the propeller (14) being arranged downstream of the outlet (8) and overlapping the outlet, characterized in that the wind power station (2) is designed to surround a heat exchanger wall (30) of a heat exchanger, said heat exchanger wall (30) being arranged in the flow channel (4) and designed to transfer heat to a fluid in the flow channel (4) to induce a fluid flow in the flow channel (4) impinging on the wind turbine (10).

IPC 8 full level
F03D 1/04 (2006.01); **F03D 1/02** (2006.01)

CPC (source: EP)
F03D 1/04 (2013.01); **F03D 9/00** (2013.01); **F28B 1/06** (2013.01); **F03D 1/02** (2013.01); **F05B 2220/602** (2013.01); **F05B 2260/24** (2013.01); **Y02E 10/46** (2013.01); **Y02E 10/72** (2013.01)

Citation (applicant)
• DE 19937800 A1 20010222 - GEA ENERGIE-TECHNIK GMBH [DE]
• DE 10323791 A1 20041209 - GEA ENERGIE-TECHNIK GMBH [DE]
• EP 3473848 A1 20190424 - FLOWGEN DEVELOPMENT & MAN GMBH [CH]

Citation (search report)
• [X] CN 110173392 A 20190827 - SHANGHAI JIUSHENG NEW MATERIAL TECH CO LTD
• [X] US 2018195496 A1 20180712 - DE LUCA MARCELLO [IT], et al
• [X] CN 203742830 U 20140730 - GUANGZHOU EVE CENS NEW ENERGY SYSTEM CO LTD
• [A] EP 2798208 A1 20141105 - YANGPICHIT PITAYA [TH]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4006332 A1 20220601

DOCDB simple family (application)
EP 20210728 A 20201130